

ABSTRACT

Simplified DVD-Audio decoders and encoders are provided. The decoder does not include FIFOs between the depacketizer and the decoder cores. Rather, the decoder cores directly receive data from the depacketizer. Underflow is avoided by spinning the DVD at a speed higher than the nominal, single speed of the DVD, which ensures that data are available at a sufficient rate. Similarly, an encoder provides data directly from an encoding core into a packetizer, eliminating the FIFOs from the data path.